## AMENDMENTS TO THE CLAIMS

- 1. (Currently amended) A flying head type optical head apparatus, comprising: a fixed arm:
- a suspension, an end of which is fixed to said fixed arm and the other end is a free end; a slider attached to the free end of said suspension;

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- an object lens mounted on said slider;
- an optical means fixed to said fixed arm and having a light source and a light receiving system;
- a collimeter collimator lens positioned between said light source and said object lens along an optical axis connecting said light source and said object lens, for converging a light from said light source to make it enter said object lens, converging a returned-back light from said object lens to make it enter said light source; and
- a first eellimeter<u>collimator</u> lens moving means for moving said eellimeter<u>collimator</u> lens along said optical axis between said light source and said object lens;

wherein the slider mounted with said object lens, attached to the free end of said suspension floats due to a wind pressure of a rotary body rotating at a position facing to said object lens.

- 2. (Currently amended) An optical head apparatus as set forth in claim 1, wherein said collimator lens is positioned so that a focal position thereof positions approximately at a light emission point of said light source, and an incident iris of said object lens positions at a focal position when assuming that a parallel light enters from the light source to said collimator lens.
- 3. (Currently amended) An optical head apparatus as set forth in claim 2, wherein a distance between said eollimeter collimator lens and the light emission point of said light source is approximately equal to a distance between said eollimeter collimator lens and the incident iris of said object lens.

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- 4. (Currently amended) An optical head apparatus as set forth in claim 1, wherein said first eellimetercollimator lens moving means is an electromagnet.
- 5. (Currently amended) An optical head apparatus as set forth in claim 1, wherein said first eollimetercollimator lens moving means is a Piezo-effect element.
- 6. (Original) An optical head apparatus as set forth in claim 1, wherein said rotary body is a rotary optical recording medium.
- 7. (Currently amended) An optical head apparatus as set forth in claim 1, further comprises a second eollimetercollimator lens moving means for substantially moving said eollimetercollimator lens in the direction perpendicular to said optical axis.
- 8. (Currently amended) An optical head apparatus as set forth in claim 7, wherein said second eollimetercollimator lens moving means is an electromagnet.
- (Currently amended) An optical head apparatus as set forth in claim 7, wherein said second eellimetercollimator lens moving means is a Piezo-effect element.
- 10. (Original) An optical head apparatus as set forth in claim 7, wherein said rotary body is a rotary magneto-optical recording medium.
- 11. (Currently amended) An optical head apparatus as set forth in claim 1, wherein said optical means fixed to said fixed arm emits a light from said light source along a surface of said arm; and

said fixed arm is provided with a mirror for directing the light emitted from said optical means to said eellimetercollimator lens.

12. (Currently amended) An optical head apparatus as set forth in claim 11, wherein

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said optical means fixed to said fixed arm emits a light from said light source along a surface of said fixed arm; and

said fixed arm has a mirror for directing the light emitted from said optical means to said eollimetercollimator lens and a mirror rotation means for rotating the mirror for making the light emitted from said optical means enter said eollimetercollimator lens by being shifted from said optical axis.

- 13. (Original) An optical head apparatus as set forth in claim 12, wherein said mirror rotation means is an electromagnet.
- 14. (Original) An optical head apparatus as set forth in claim 12, wherein said mirror rotation means is a Piezo-effect element.
- 15. (Original) An optical head apparatus as set forth in claim 1, wherein said object lens is configured by combining two converging lenses provided close to the slider and used for a near field recording operation.
- 16. (Currently amended) An optical recording/reproducing apparatus, comprising: a rotary driving means for a rotary recording medium for optically or magneto-optically recording and/or recording/reading data;
- a flying head type optical head apparatus comprising a fixed arm; a suspension, an end of which is fixed to said fixed arm and the other end is a free end; a slider attached to the free end of said suspension; an object lens mounted on said slider; an optical means fixed to said fixed arm and having a light source and a light receiving system; a eollimetercollimator lens positioned between said light source and said object lens along an optical axis connecting said light source and said object lens, for converging a light from said light source to make it enter said object lens; and a first eollimetercollimator lens moving means for moving said eollimetercollimator lens along said optical axis between said light source and said object lens; wherein the slider mounted with said object lens, attached to the free end of said suspension

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floats due to a wind pressure caused by rotation of said rotary recording medium rotating at a position facing to said object lens; and

a control apparatus for performing tracking control on said optical head apparatus, comprising a eellimetercollimator lens position control means for controlling a position of said eellimetercollimator lens by driving said first eellimetercollimator lens moving means based on a focus error signal.

- 17. (Currently amended) An optical recording/reproducing apparatus as set forth in claim 16, wherein said eollimetercollimator lens is positioned so that a focal position thereof positions approximately at a light emission point of said light source, and an incident iris of said object lens positions at a focal position when assuming that a parallel light enters from the light source to said eollimetercollimator lens.
- 18. (Currently amended) An optical recording/reproducing apparatus as set forth in claim 17, wherein a distance between said eellimetercollimator lens and the light emission point of said light source is approximately equal to a distance between said eellimetercollimator lens and the incident iris of said object lens.
- 19. (Currently amended) An optical recording/reproducing apparatus as set forth in claim 16, wherein

said optical head apparatus further comprises a second eollimeter collimator lens moving means for substantially moving said eollimeter collimator lens in the direction perpendicular to said optical axis; and

said control apparatus further comprises a tracking sub servo control means for controlling a position of said eollimetercollimator lens to the track direction of said rotary recording medium by driving said second eollimetercollimator lens moving means based on a tracking error signal.

20. (Currently amended) An optical recording/reproducing apparatus as set forth in claim 16, wherein

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said rotary recording medium has one or a plurality of recording surfaces; and said eollimetercollimator lens position control means of said control means drives said first eollimetercollimator lens moving means to adjust a position of said eollimetercollimator lens so that a light from said light source is focused on one recording surface subjected to recording or reproducing of data through said object lens among one or a plurality of recording surfaces of said rotary recording medium.

- 21. (New) An optical head apparatus as set forth in claim 1, wherein the first collimator lens moves the collimator lens independently to the light source.
- 22. (New) An optical head apparatus as set forth in claim 16, wherein the first collimator lens moves the collimator lens independently to the light source.